

# Comparisons of Job Characteristics

**Focus Occupation: Pipelayers (47-2151)**

**Associated Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)**

Compare Knowledge  
 Compare Skills  
 Compare Abilities  
 Compare Detailed Work Activities  
 Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 85

**Focus Occupation: Pipelayers (47-2151)**

**Associated Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)**

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Building and Construction	4.0	15.0	6.9	<< Extensive education and/or training may be required
Mechanical	6.8	13.4	8.1	<< Extensive education and/or training may be required
Public Safety and Security	6.9	10.5	5.2	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 87

**Focus Occupation: Pipelayers (47-2151)**

**Associated Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)**

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation and Control	5.4	13.4	9.2	<< Extensive development of skills in this area may be required
Operation Monitoring	6.6	10.0	9.1	0 Current skill level may be sufficient
Equipment Maintenance	3.5	6.9	6.7	0 Current skill level may be sufficient
Troubleshooting	4.5	6.6	7.5	> Skill level is likely sufficient
Repairing	3.4	6.4	7.3	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Pipelayers (47-2151)

Associated Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Multilimb Coordination	6.0	13.2	8.6	<<	Extensive improvement in abilities may be required
Control Precision	6.6	12.6	10.3	<	Some improvement in abilities may be required
Depth Perception	5.3	12.2	9.0	<<	Extensive improvement in abilities may be required
Reaction Time	4.8	9.7	7.3	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	8.7	5.6	<<	Extensive improvement in abilities may be required
Rate Control	3.8	8.6	6.6	<	Some improvement in abilities may be required
Glare Sensitivity	2.6	5.5	3.3	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 77

Focus Occupation: Pipelayers (47-2151)

Associated Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)

Work Activities	Exclusivity of Activity
Grade or redistribute earth for roads or other construction	87
Operate power driven pumps	66
Signal directions or warnings to coworkers	42
Understand construction specifications	53
Use hand or power tools	2
Use measuring devices in construction or extraction work	41

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Pipelayers (47-2151)

Associated Occupation: Operating Engineers and Other Construction Equipment Operators (47-2073)

Tools and Technologies	Exclusivity
Aerial lifts	13
Cleaning equipment	11
Compressors	9
Computers	1
Drilling and operation machinery	29
Earth moving machinery	11
Forming tools	2
Garden tools	12
Indicating and recording instruments	2
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Measuring and layout tools	3
Metal bending and forming machinery	17
Pneumatic tools	8
Power generators	16
Power tools	2
Pumps	9
Soldering and brazing and welding machinery and supplies	6
Tool attachments and accessories	12
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.